

Patent Abstracts of Japan

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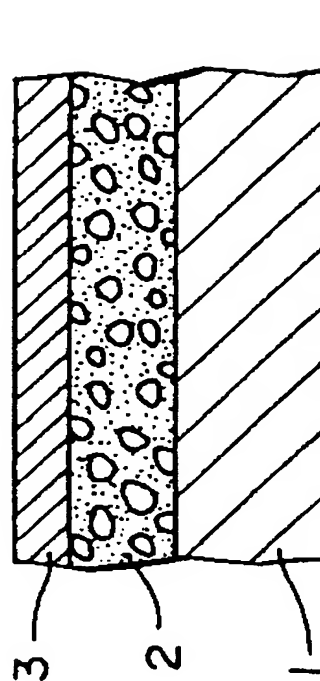
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TITLE : ANTICORROSIVE AND
OXIDATION-RESISTANT MATERIAL
AND MANUFACTURE THEREOF



ABSTRACT : PURPOSE: To enable corrosion resistance and oxidation-resistant material to be obtained, in which cracks, delaminations, and the like due to thermal hysteresis never happen thereon by providing a porous buffer layer between a base material and a protective layer.

CONSTITUTION: Slurry is controlled by dispersing fine particles consisting of silicon carbide and an organic binder into ethanol, and a base material 1 is applied therewith by the use of a brush. Following this, it is sintered in an ambient atmosphere of argon in order to form a porous buffer layer 2 that is rigidly close-adhered to the base material 1. Next, it is housed within a CVD device so as to form a fine protective layer 3 consisting of silicon carbide in use of a raw material gas of silicon tetrachloride, methane, and hydrogen.

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